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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/770,003	01/25/2001	William Girzone	Girzone 2	5206
7	590 12/03/2002			
Daniel N. Daisak Chief Patent and Trademark Counsel TyCom (US) Inc.			EXAMINER	
			WANG, GEORGE Y	
Rm 2B-106, 250 Industrial Way West Eatontown, NJ 07724			ART UNIT	PAPER NUMBER
Eutomown, 113	07721	•	2882	
			DATE MAIL ED: 12/03/2002	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)			
Office Action Summany	09/770,003	GIRZONE ET AL.			
Office Action Summary	Examiner	Art Unit			
The MAIL INC DATE of this communication and	George Y. Wang	2882			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period v - Failure to reply within the set or extended period for reply will, by statute, - Any reply received by the Office later than three months after the mailing earmed patent term adjustment. See 37 CFR 1.704(b). Status	36(a). In no event, however, may a reply be y within the statutory minimum of thirty (30) d vill apply and will expire SIX (6) MONTHS fro , cause the application to become ABANDON	timely filed ays will be considered timely. m the mailing date of this communication. NED (35 U.S.C. § 133).			
1) Responsive to communication(s) filed on 04 N	November 2002 .				
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	Ex parte Quayle, 1955 C.D. 11,	1400 0.0. 210.			
4)⊠ Claim(s) <u>1-9,21 and 22</u> is/are pending in the application.					
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-9,21 and 22</u> is/are rejected.					
7)⊠ Claim(s) <u>21 and 22</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers	_				
9) The specification is objected to by the Examiner. 10) The drawing(s) filed on 04 November 2002 is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the		•			
11) The proposed drawing correction filed on					
If approved, corrected drawings are required in reply to this Office action.					
12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) ☐ All b) ☐ Some * c) ☐ None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)	,,				
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 6	5) Notice of Informa	ary (PTO-413) Paper No(s) Il Patent Application (PTO-152)			

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DETAILED ACTION

Drawings

1. The corrected or substitute drawings were received on 6 November 2002. These drawings are accepted by Examiner.

Claim Objections

2. Claims 21 and 22 are objected to under 37 CFR 1.75(c), as being of improper dependent form for failing to further limit the subject matter of a previous claim.

Applicant is required to cancel the claim(s), or amend the claim(s) to place the claim(s) in proper dependent form, or rewrite the claim(s) in independent form.

Examiner notes that it has been held that the recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate that claimed apparatus from a prior art apparatus satisfying the claimed structural limitations and is therefore not given any patentable weight. *Ex parte Masham, 2 USPQ2d 1647 (1987)*.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

- 4. Claims 1, 3, and 9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falkenstein et al. (U.S. Patent No. 4,707,066, from hereinafter "Falkenstein").
- Regarding claims 1, 3, and 9, Falkenstein discloses an optical fiber device with a housing (fig. 1, ref. G) having a wall (col. 5, lines 39-40), a vacuumed enclosure (fig. 1, ref. K; col. 3, lines 63-65), an optical fiber holding tube (fig. 1, ref. R) extending through the wall and having a first and second end (col. 5, lines 62-68), an optical fiber (fig. 1, ref. L), and a gas blocking device made of hot melt glue (col. 1, lines 65-67) and creates a seal that prevents water and gas from passing through the fiber holder (col. 3, lines 48-50), which is organized by a fiber insert (fig. 1, ref. W) and holes (col. 4, lines 27-49).

However, Falkenstein fails to specifically disclose a plurality of optical fibers.

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have specified the use of a plurality of optical fibers and the use of components for the use of a plurality of optical fibers since one would be motivated to

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conduct modulated light pulses with information not to just one but multiple receiver modules (col. 1, lines 14-20) for improved distribution of optical data and transmission efficiency.

- 6. Claims 2 and 4-8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falkenstein et al. (U.S. Patent No. 4,707,066, from hereinafter "Falkenstein") in view of Tanabe et al. (U.S. Patent No. 5,613,031, from hereinafter "Tanabe").
- 7. <u>As to claim 2</u>, Falkenstein discloses an optical fiber device as recited above. However, Falkenstein fails to specifically disclose the gas being blocked is nitrogen.

Tanabe discloses fiber optic insert structure whose seal or gas blocking device prevents passage of nitrogen (col. 1, lines 19-24).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have a gas blocking device preventing passage of nitrogen since one would be motivated to keep the most abundant gaseous element of our atmosphere from the fiber since optical elements tend to deteriorate in the air and surrounding atmosphere (col. 1, lines 19-20). This not only preserves longevity of the optical fibers but promotes stability and reliability in performance of the fiber and module (col. 1, lines 20-24).

8. <u>As per claims 4, 6, and 8, Falkenstein discloses an optical fiber device as recited above with an optical fiber holding tube (fig. 1, ref. R) extending through the wall and having a first and second end (col. 5, lines 62-68) made metal soldering (col. 4, lines</u>

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53-57) and a gas blocking device made of hot melt glue (col. 1, lines 65-67) that creates a seal that prevents water and gas from passing through the fiber holder (col. 3, lines 48-50), which is organized by fiber inserts (fig. 1, ref. W) and holes (col. 4, lines 27-49). The passageway for the fiber is also conical with a wide and narrow portion and tapering middle section, such that the fiber insert is at the wide portion (fig. 1, ref. W).

9. <u>As to claims 5 and 7</u>, Falkenstein discloses an optical fiber device as recited above. However, the reference fails to specifically disclose a locking member securing a non-compressible, fiber-organizing insert at one end of the fiber body.

Tanabe teaches an fiber optic insert structure with a locking member or fixing ring (fig. 1, ref. 23). Furthermore, the reference discloses that the insert is made of non-compressible material, such as an Fe-Ni-Co alloy and steel (col. 2, lines 32-34).

It would have been obvious to one of ordinary skill at the time the invention was made to have utilized a locking member to secure a non-compressible, fiber-organizing insert at one end of the fiber body since one would be motivated by increased hermetic, or air-tight, sealing. Although the reference teaches that it is not necessary or even beneficial to use this type of locking member on a non-compressible insert, Tanabe does disclose that it provides a hermetic sealing that is sufficient and complete (col. 1, lines 59-60).

10. Claims 21 and 22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Falkenstein and Tanabe in view of Berry et al. (U.S. Patent No. 4,657,346, from hereinafter "Berry").

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Falkenstein and Tanabe disclose the optical fiber device as recited above. However, the references fail to specifically disclose the diameter of the narrow portion dimensioned such that the fibers act as strength members within the narrow portion of the passageway, in particular, having a cross-sectional area of fibers that is about ½ to the cross-sectional area to the narrow portion.

Berry discloses an optical fiber device with a seal where the cross-sectional area of fibers is about ½ when compared to the cross-sectional area to the narrow portion (fig. 3).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to have specified this ratio of cross-sectional areas since one would be motivated to have the fibers act as strength members within the narrow portion of the passageway. Not only does this reduce the bulkiness of the device, but also to enhance the sealing effect of the device (col. 4, lines 21-25).

Response to Arguments

11. Applicant's arguments with respect to claims 1-9 and 21-22 have been considered but are most in view of the new ground(s) of rejection.

However, In response to Applicant's primary argument that the Falkenstein reference does not disclose or suggest a plurality of optical fibers as recited in claim 1, Examiner asserts that it has been held that mere duplication of the essential working parts of a device involves only routine skill in the art and cannot be considered inventive. St. Regis Paper Co. v. Bemis Co., 193 USPQ 8. Furthermore, it is clear that the Falkenstein reference is open to the use of a plurality of optical fibers since it

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discloses that "the present invention was particularly developed for...systems with glass *fibers*" [italics inserted by Examiner for emphasis] (col. 1, lines 14-20). Thus, Examiner asserts that the Falkenstein reference is valid and maintains rejection.

Conclusion

12. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to George Y. Wang whose telephone number is 703-305-7242. The examiner can normally be reached on M-F, 8 am - 4:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Robert H. Kim can be reached on 703-305-3492. The fax

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phone numbers for the organization where this application or proceeding is assigned are 703-308-7722 for regular communications and 703-308-7724 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.

gw November 27, 2002 ROBERT H. KIM
SUPERMISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800